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- **Sabbah, Eyad**
3062 LA Rotterdam (NL)
- **Van der Made, Pieter Maarten**
3062 BS Rotterdam (NL)

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**(71) Applicant: Jason Geosystems B.V.
3012 CN Rotterdam (NL)**

(72) Inventors:
• **Debeye, Hendrik Willem Johan**
3039 SR Rotterdam (NL)

(74) Representative:
Land, Addick Adriaanus Gosling
Arnold & Siedsma,
Advocaten en Octrooigemachtigden,
Sweelinckplein 1
2517 GK Den Haag (NL)

(54) **Method for estimating or simulating parameters of a stratum structure**

(57) The present invention provides for a method for estimating or simulating one or more parameters of a stratum structure, comprising the steps of:

- determining a first model of the stratum structure;
- determining one or more variograms of one or more parameters in one or more of the strata;
- measuring the value of a parameter in a number of points;
- estimating on the basis of a variogram a probability density function (PDF) of the parameter at locations in the strata close to or at some distance from the locations where the parameter has been measured; and
- determining by using seismic data an acceptable value of the parameter at the location where the probability density function of the parameter has been determined using a variogram.

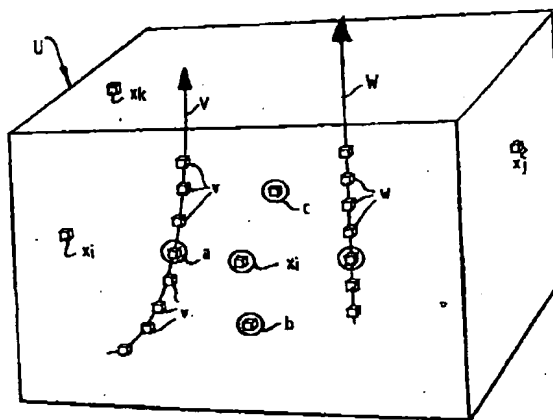


FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26 October 2000	Examiner Lorne, B
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document		T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons & : member of the same patent family, corresponding document	

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Application Number
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<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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